

1. An object identifier reader, comprising:
a communication port for communicating with a host computing device;
a storage medium;
a processor;
memory in electronic communication with the processor; and
instructions stored in the memory, the instructions being executable to implement a method comprising:
reading an object identifier to obtain data;
at least one of storing the data in the storage medium and attempting to send the data to the host computing device; and
if the object identifier reader is connected to the host computing device, attempting to send stored data in the storage medium to the host computing device.
2. The object identifier reader of claim 1, wherein the data are stored in the storage medium and at least one attempt is made to send the data to the host computing device.
3. The object identifier reader of claim 1, wherein at least one attempt is made to send the data to the host computing device if the storage medium is empty, and wherein the data are stored in the storage medium if the at least one attempt fails or if the storage medium is not empty.
4. The object identifier reader of claim 1, wherein at least one attempt is made to send the data to the host computing device, and wherein the data are stored in the storage medium if the at least one attempt fails.
5. The object identifier reader of claim 4, wherein reading the object identifier is performed by a main task, and wherein the other steps of the method are performed by a data task that executes in parallel to the main task.

6. The object identifier reader of claim 4, wherein the data comprise an image, wherein reading the object identifier is performed by a main task, wherein the other steps of the method are performed by a data task, and wherein the main task and the data task execute sequentially.
7. The object identifier reader of claim 1, wherein the method further comprises clearing the stored data from the storage medium when the stored data are sent to the computing device.
8. The object identifier reader of claim 1, wherein the method further comprises attempting to connect to the host computing device if the object identifier reader is not connected to the host computing device.
9. The object identifier reader of claim 1, wherein the storage medium comprises non-volatile storage.
10. The object identifier reader of claim 9, wherein the storage medium further comprises volatile storage.
11. The object identifier reader of claim 1, further comprising an additional storage medium for storing a copy of the data as a log.
12. The object identifier reader of claim 1, further comprising saving metadata in the storage medium to differentiate buffered data from log data.
13. The object identifier reader of claim 1, wherein the method further comprises disconnecting from the host computing device if the object identifier reader is connected to the computing device and the object identifier reader does not have any data to send to the host computing device.
14. The object identifier reader of claim 1, further comprising entering a power-saving mode if the storage medium is empty or if the object identifier reader cannot connect to the host computing device after a period of time.

15. An object identifier reader, comprising:
 - a communication port for communicating with a host computing device;
 - a storage medium;
 - a processor;
 - memory in electronic communication with the processor; and
 - instructions stored in the memory, the instructions being executable to implement a method comprising:
 - reading an object identifier to obtain data;
 - storing the data in the storage medium;
 - attempting to connect to the host computing device if the object identifier reader is not connected to the host computing device; and
 - if the object identifier reader is connected to the host computing device, attempting to send stored data in the storage medium to the host computing device.
16. An object identifier reader, comprising:
 - a communication port for communicating with a host computing device;
 - a storage medium;
 - a processor;
 - memory in electronic communication with the processor; and
 - instructions stored in the memory, the instructions being executable to implement a method comprising:
 - reading an object identifier to obtain data;
 - attempting to connect to the host computing device if the object identifier reader is not connected to the host computing device;
 - if the storage medium is empty, making at least one attempt to send the data to the host computing device;
 - storing the data in the storage medium if the at least one attempt fails or if the storage medium is not empty; and

if the object identifier reader is connected to the host computing device,
attempting to send stored data in the storage medium to the computing
device.

17. An object identifier reader, comprising:
a communication port for communicating with a host computing device;
a storage medium;
a processor;
memory in electronic communication with the processor; and
instructions stored in the memory, the instructions being executable to implement a
method comprising:
reading an object identifier to obtain data;
attempting to connect to the host computing device if the object identifier reader
is not connected to the host computing device;
making at least one attempt to send the data to the host computing device;
storing the data in the storage medium if the at least one attempt fails; and
if the object identifier reader is connected to the host computing device,
attempting to send stored data in the storage medium to the computing
device.
18. In an object identifier reader, a method comprising:
reading an object identifier to obtain data;
at least one of storing the data in a storage medium of the object identifier reader and
attempting to send the data to a host computing device; and
if the object identifier reader is connected to the host computing device, attempting to
send stored data in the storage medium to the host computing device.
19. The method of claim 18, wherein the data are stored in the storage medium and at least
one attempt is made to send the data to the host computing device.

20. The method of claim 18, wherein at least one attempt is made to send the data to the host computing device if the storage medium is empty, and wherein the data are stored in the storage medium if the at least one attempt fails or if the storage medium is not empty.
21. The method of claim 18, wherein at least one attempt is made to send the data to the host computing device, and wherein the data are stored in the storage medium if the at least one attempt fails.
22. The method of claim 21, wherein reading the object identifier is performed by a main task, and wherein the other steps of the method are performed by a data task that executes in parallel to the main task.
23. The method of claim 21, wherein the data comprise an image, wherein reading the object identifier is performed by a main task, wherein the other steps of the method are performed by a data task, and wherein the main task and the data task execute sequentially.
24. The method of claim 18, further comprising clearing the stored data from the storage medium when the stored data are sent to the computing device.
25. The method of claim 18, further comprising attempting to connect to the host computing device if the object identifier reader is not connected to the host computing device.
26. The method of claim 18, further comprising storing a copy of the data as a log in an additional storage medium.
27. The method of claim 18, further comprising saving metadata in the storage medium to differentiate buffered data from log data.
28. The method of claim 18, wherein the method further comprises disconnecting from the host computing device if the object identifier reader is connected to the computing device and the object identifier reader does not have any data to send to the host computing device.

29. The method of claim 18, further comprising entering a power-saving mode if the storage medium is empty or if the object identifier reader cannot connect to the host computing device after a period of time.
30. In an object identifier reader, a method comprising:
reading an object identifier to obtain data;
storing the data in a storage medium of the object identifier reader;
attempting to connect to a host computing device if the object identifier reader is not connected to the host computing device; and
if the object identifier reader is connected to the host computing device, attempting to send stored data in the storage medium to the host computing device.
31. In an object identifier reader, a method comprising:
reading an object identifier to obtain data;
attempting to connect to a host computing device if the object identifier reader is not connected to the host computing device;
if a storage medium of the object identifier reader is empty, making at least one attempt to send the data to the host computing device;
storing the data in the storage medium if the at least one attempt fails or if the storage medium is not empty; and
if the object identifier reader is connected to the host computing device, attempting to send stored data in the storage medium to the computing device.
32. In an object identifier reader, a method comprising:
reading an object identifier to obtain data;
attempting to connect to a host computing device if the object identifier reader is not connected to the host computing device;
making at least one attempt to send the data to the host computing device;
storing the data in a storage medium of the object identifier reader if the at least one attempt fails; and

if the object identifier reader is connected to the host computing device, attempting to send stored data in the storage medium to the computing device.